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NOTICE OF ALLOWANCE AND FEE(S) DUE

SCHWABE, WILLIAMSON & WYATT, P.C. PACWEST CENTER, SUITE 1900 1211 S.W. FIFTH AVENUE PORTLAND, OR 97204

EXAMINER
RILEY, MARCUS T

ART UNIT PAPER NUMBER
2625

DATE MAILED: 03/03/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,886	04/15/2004	Richard David Taylor	MP2209-156672	1435

TITLE OF INVENTION: PROGRAMMABLE I/O INTERFACE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/03/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

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65589 SCHWABE, W	/ILLIAMSON &	8/2011 WYATT, P.C.	Fee pap hav	(s) Transmittal. This ers. Each additional person certificate of Certificate occurrency certify that this	certificate cannot be used for paper, such as an assignment of mailing or transmission. Greate of Mailing or Transmittal is being the paper.	a deposited with the United
PACWEST CEN 1211 S.W. FIFTI PORTLAND, OI		1	Stat add tran	les Postal Service with ressed to the Mail Standard to the USPTC	h sufficient postage for firs Stop ISSUE FEE address O (571) 273-2885, on the da	st class mail in an envelope above, or being facsimile ate indicated below.
, -						(Depositor's name)
			_			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	L A	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,886	04/15/2004		Richard David Taylor		MP2209-156672	1435
TITLE OF INVENTION:						1
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I	FEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/03/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS]		
RILEY, MA	ARCUS T	2625	358-500000	-		
CFR 1.363). Change of correspond of corresp	ess an assignee is ident h in 37 CFR 3.11. Comp	unge of Correspondence " Indication form ed. Use of a Customer A TO BE PRINTED O	(1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or a	o 3 registered patent a vely, le firm (having as a magent) and the names meys or agents. If no printed.	nember a 2	ocument has been filed for
Please check the appropri	iate assignee category or	r categories (will not be	e printed on the patent):	Individual 🗖 Corp	poration or other private gro	oup entity 🗖 Government
a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
a. Applicant claims	tus (from status indicate s SMALL ENTITY statu	us. See 37 CFR 1.27.	☐ b. Applicant is no lon	ger claiming SMALL	ENTITY status. See 37 Cl	FR 1.27(g)(2).
NOTE: The Issue Fee and naterest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be acceptes Patent and Tradem	pted from anyone other than t ark Office.	he applicant; a registe	ered attorney or agent; or the	ne assignee or other party in
Authorized Signature				Date		
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This collection of informa in application. Confident ubmitting the completed his form and/or suggesti	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu	CFR 1.311. The inform 6 U.S.C. 122 and 37 CF 6 USPTO. Time will v rden, should be sent to	ation is required to obtain or FR 1.14. This collection is est ary depending upon the indiv the Chief Information Office	retain a benefit by the timated to take 12 mi vidual case. Any com er, U.S. Patent and Tr	public which is to file (and nutes to complete, including ments on the amount of tire rademark Office, U.S. Depart	I by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O.

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10/826,886	04/15/2004	Richard David Taylor MP2209-156672		1435	
65589 75	90 03/03/2011	EXAMINER			
SCHWABE, WILLIAMSON & WYATT, P.C. PACWEST CENTER, SUITE 1900 1211 S.W. FIFTH AVENUE			RILEY, MARCUS T		
			ART UNIT	PAPER NUMBER	
PORTLAND, OR	07204		2625		

DATE MAILED: 03/03/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1021 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1021 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)	
Notice of Allowability	10/826,886 Examiner	TAYLOR ET AL. Art Unit	
Notice of Americanity	Examine	Artonit	
	MARCUS T. RILEY	2625	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comi IGHTS. This application is	in this application. If not included nunication will be mailed in due course	
1. X This communication is responsive to Applicant's Appeal B	rief filed January 14, 2011.		
2. 🔀 The allowed claim(s) is/are <u>1,3 and 5-12</u> .			
 3.	. , , ,) or (f).	
2. Certified copies of the priority documents have	e been received in Applica	ion No	
3. \square Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application fro	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirem	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			∃ OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	e.		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			10
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🗆 Notice of	Informal Patant Application	
 In Notice of References Cited (PTO-892) In Notice of Draftperson's Patent Drawing Review (PTO-948) 		Informal Patent Application Summary (PTO-413),	
 Information Disclosure Statements (PTO/SB/08), 	Paper No	o./Mail Date s Amendment/Comment	
Paper No./Mail Date			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowance)
	9.	<u> </u>	
/MARCUS T RILEY/	/Twyler L. Ha		
Examiner, Art Unit 2625	Supervisory F	atent Examiner, Art Unit 2625	

DETAILED ACTION

Response to Amendment

1. This office action is responsive to the Applicant's Appeal Brief received on January 14, 2011. Before Applicant's amendment, claims 1, 3 & 5-12 were pending. Claims 1, 3 & 5-12 have been fully considered and are persuasive. Claims 2 & 4 have been cancelled.

Response to Arguments

2. Applicant's arguments with respect Claims 1, 3 & 5-12 filed on January 14, 2011 have been fully considered and are persuasive.

Claim Rejections

3. See Applicant's Arguments, page 4-7, filed January 14, 2011, with respect to claim rejections under 35 U.S.C. §103, have been fully considered and are persuasive. Claims 1, 3 & 5-12 were rejected under 35 U.S.C. §103. In light of the amendments presented, Examiner withdraws the 103 rejection for independent claim 1 and dependent claims 3 & 5-12. The previous 35 U.S.C. §112 claim rejection is also withdrawn in light of the applicant's response.

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Allowable Subject Matter

4. Claims 1, 3 & 5-12 are allowed.

5. The following is Examiners statement of reasons for allowance:

Claim 1 uniquely identify the distinct features of a programmable interface wherein the

system processor is configured to load the executable code onto the Code Store SRAM and is

further configured to signal the microcontroller, via the run control register, to begin execution of

the one or more instructions included in the executable code;

and wherein the plurality of registers includes (i) a general-purpose microcontroller

register, (ii) a timer register, (iii) an external input/output (I/0) interface register, (iv) an internal

I/O register, (v) a shared register, (vi) an interrupt register, and (vii) a first-in, first-out (FIFO)

register configured to communicate with a direct memory access (DMA) controller.

The closest prior art made of record with regards to the Examiner's 103 rejections

includes: Amini et al. (US 5,381,538) in combination with Mills et al. (US 5,696,917) and

Brown (US 6,029,239) and further in view of Curry et al. (US 6,112,275).

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue and fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

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Art Unit: 2625

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marcus T. Riley whose telephone number is 571-270-1581. The

examiner can normally be reached on Monday - Friday, 7:30-5:00, est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Twyler L. Haskins can be reached on 571-272-7406. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marcus T. Riley Assistant Examiner

Art Unit 2625

/MARCUS T RILEY/ Examiner, Art Unit 2625

/Twyler L. Haskins/

Supervisory Patent Examiner, Art Unit 2625